

What is Claimed is:

1. A catheter for imaging within a human body, the catheter comprising:  
an elongate tubular member adapted to be introduced into the human body, the tubular member including a proximal portion and a distal portion;  
a braided shield disposed on the exterior of the tubular member, the braided shield formed of a magnetic material;  
an imaging device disposed within the distal portion of the tubular member, the imaging device adapted to emit energy waves for imaging within the human body; and  
an elongate flexible cable disposed within the tubular member and electrically coupled to the imaging device.
2. The catheter of claim 1 further comprising a cover covering the braided shield.
3. The catheter of claim 2 wherein the cover is a heat shrinkable plastic.
4. The catheter of claim 2 wherein the braided shield acts as an electric shield.
5. The catheter of claim 1 further comprising a lumen defined within the tubular member.
6. The catheter of claim 6 wherein the lumen is coupled to an infusion port for introducing a drug into the lumen.
7. The catheter of claim 1 further comprising an inflatable balloon disposed on the tubular member.
8. The catheter of claim 1 further comprising a cutting device.
9. A catheter for imaging within a human body, the catheter comprising:  
an elongate tubular member adapted to be introduced into the human body, the tubular member including a proximal portion and a distal portion;  
an imaging device disposed within the distal portion of the tubular member, the imaging device adapted to emit energy waves for imaging within the human body; and  
a micromotor disposed within the distal portion of the tubular member, the micromotor being coupled to rotate the imaging device.

10. The catheter of claim 9 further comprising a transmitter coupled to the imaging device capable of sending electrical signals to the imaging device to cause the imaging device to emit the energy waves.

11. The catheter of claim 9 further comprising a receiver coupled to the imaging device capable of receiving an electrical signal from the imaging device.

12. The catheter of claim 11 further comprising a receiver coupled to the imaging device capable of receiving an electrical signal from the imaging device.

13. The catheter of claim 9 further comprising an elongate flexible cable disposed within the tubular member and electrically coupled to receive an electrical signal from the imaging device.

14. The catheter of claim 11 further comprising an elongate flexible cable disposed within the tubular member and electrically coupled to receive the electrical signal from the receiver.

15. The catheter of claim 9 further comprising a lumen defined within the tubular member.

16. The catheter of claim 15 wherein the lumen is coupled to an infusion port for introducing a drug into the lumen.

17. The catheter of claim 9 further comprising a reflective surface in the tubular member, the reflective surface disposed to direct the energy waves from the imaging device to a portion of the human body.

18. The catheter of claim 17 wherein the reflective surface is a mirror.

19. The catheter of claim 9 further comprising an inflatable balloon disposed on the tubular member.

20. The catheter of claim 9 further comprising a cutting device.

21. The catheter of claim 9 further comprising a guidewire adapted to be coupled to the catheter to guide the catheter during introduction of the catheter into the human body.